

Permit No. AK-002255-1

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AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"),

The Greater Anchorage Area Borough, Alaska

is authorized to discharge from the John M. Asplund Water Pollution Control Facility

to receiving waters named Cook Inlet at Point Woronzof

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, and III hereof.

This permit shall become effective on January 20, 1975 and shall expire at midnight, June 30, 1977.

Signed this 20th day of December, 1974.

L Edwin Coats
Regional Administrator

SUPERSEDED

General Conditions

G1. All discharges authorized herein shall be consistent with the terms and conditions of this permit; facility expansions, or modifications which result in new or increased discharges of pollutants must be reported by submission of a new NPDES application not later than 180 days prior to such proposed changes; or, if such new or increased discharges does not violate the effluent limitations specified in this permit, by submission to the permit issuing authority of notice at least 30 days prior to such new or increased discharges of pollutants; the discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit.

G2. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

G3. Notwithstanding G2. above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under section 307(a) of the Act for a toxic pollutant which is present in the discharge authorized herein and such standard or prohibition is more stringent than any limitation upon such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee shall be so notified.

G4. The permittee shall allow the head of the State water pollution control agency, the Regional Administrator, and/or their authorized representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit;

c. To inspect at reasonable times any monitoring equipment or monitoring method required in this permit; or,

d. To sample at reasonable times any discharge of pollutants.

G5. The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

G6. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

G7. This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.

G8. The specific effluent limitations and other pollution controls applicable to the discharge permitted herein are set forth below in the special conditions. Also set forth below are self-monitoring and reporting requirements. Unless otherwise specified, the permittee shall submit duplicate original copies of all reports to the head of the State water pollution control agency and the Regional Administrator. Except for data determined to be confidential under section 308 of the Act, all such reports shall be available for public inspection at the offices of the head of the State water pollution control agency and the Regional Administrator. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in section 309 of the Act.

G9. The permittee shall provide advance notice to the Regional Administrator and head of the State water pollution control agency of:

a. Any new introduction of pollutants into the treatment works from a source which would be a new source as defined in section 306 of the Act if such source were discharging pollutants.

b. Any new introduction of pollutants which exceeds 10,000 gallons on any one day into such treatment works from a source which would be subject to section 301 of the Act if such source were discharging pollutants, and

c. Any substantial change in volume or character of pollutants being introduced into such treatment works by a source introducing pollutants into such works at the time of issuance of the permit.

Such notice shall include information on:

a. The quality of effluent to be introduced into such treatment works; and,

b. Any anticipated impact of such change in the quantity or quality of effluent to be discharged from such publicly owned treatment works.

G10. The permittee shall require any industrial user of these treatment works to comply with any applicable requirements of sections 204(b), 307, and 308 of the Act. The permittee shall require any industrial user subject to the requirements of section 307 of the Act to prepare and transmit to the Regional Administrator and the State agency periodic notice (over intervals not to exceed 9 months) of progress toward full compliance with section 307 requirements.

G11. The permittee shall require any industrial user of storm sewers to comply with the requirement of section 308 of the Act.

Special ConditionsSl. Effluent Limitations

During the period beginning on the effective date of this permit and lasting until the date of expiration of this permit, discharges from outfalls shall be limited and monitored by the permittee as specified below:

a. The monthly average quantity of effluent discharged from the wastewater treatment facility shall not exceed 129,000 cmd (34 mgd) except during spring break-up, approximately 3 weeks, within the period beginning March 15 and lasting through April 30. During spring break-up within the period beginning March 15 and lasting through April 30, the monthly average quantity of effluent discharged from the wastewater treatment facility shall not exceed 160,000 cmd (42 mgd).

b. The pH shall not be less than 6.0 nor greater than 9.0.

c. The following shall be limited and monitored by the permittee as specified:

Effluent Concentrations

<u>Effluent Characteristic</u>	<u>Unit of Measurement</u>	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Daily Maximum</u>
Biochemical Oxygen Demand (5-day)	mg/l	120	130	140
Suspended Solids	mg/l	100	115	130
Fecal Coliform Bacteria	number/100 ml	700	1,500	--

Effluent Loadings

<u>Effluent Characteristic</u>	<u>Unit of Measurement</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>
Biochemical Oxygen Demand (5-day)	kg/day (lb/day)	15,500 (34,000)	18,000 (39,700)
Suspended Solids	kg/day (lb/day)	12,900 (28,400)	16,800 (36,900)

Monitoring Requirements

<u>Effluent Characteristic</u>	<u>Unit of Measurement</u>	<u>Sampling Frequency</u>	<u>Type of Sample</u>
Total Flow	cmd (mgd)	continuous	recording
Biochemical Oxygen Demand (5-day)	mg/l	weekly	24-hr composite
-Settleable Solids	ml/l	daily	grab
Suspended Solids	mg/l	weekly	24-hr composite
pH	pH units	daily	grab
-Residual Chlorine	mg/l	continuous	recording
-Temperature	°C	daily	grab
Fecal Coliform Bacteria	number/100 ml	weekly	grab

For the purposes of this subsection, the monthly average, other than for fecal coliform bacteria, is the arithmetic mean of the 24-hour composite samples collected during a calendar month. The monthly average for fecal coliform bacteria is the geometric mean of samples collected during a calendar month.

For the purposes of this subsection, the weekly average, other than for fecal coliform bacteria, is the arithmetic mean of the 24-hour composite samples collected during a calendar week. The weekly average for fecal coliform bacteria is the geometric mean of samples collected in a calendar week.

For the purposes of this subsection, the daily maximum, other than for fecal coliform bacteria, is the maximum concentration of any 24-hour composite sample.

For the purposes of this subsection, a twenty-four hour composite sample consists of several effluent portions, collected in a 24-hour period and composited according to flow. For fecal coliform bacteria, a sample consists of one effluent portion collected during a calendar day.

Other measurements of oxygen demand can be substituted for Biochemical Oxygen Demand (BOD) where the permittee can demonstrate long-term correlation of the method of BOD values. Substitution of such measurements must receive at least 30 days prior approval from the Regional Administrator.

S2. Schedule of Compliance for Effluent Limitations

a. To assure compliance with best practicable waste treatment technology, as a minimum secondary treatment as defined in 40 CFR, Part 133 the permittee shall submit by July 1, 1976, a Plan of Study presenting:

- (1) The proposed planning area;
- (2) An identification of the entity or entities that will be conducting the planning;
- (3) The nature and scope of the proposed Step I project, including a schedule for the completion of specific tasks; and
- (4) An itemized description of the estimated costs for the project.

b. Prior to July 1, 1976, the permittee shall complete a sewer system evaluation. Progress reports on the evaluation shall be submitted quarterly beginning on September 1, 1975.

c. Prior to October 1, 1975, the permittee shall install and place into operation adequate grit removal facilities at the wastewater treatment plant.

d. Prior to December 31, 1975, the permittee shall complete a study of major industrial users^{1/} of the sewer system to include, but not be limited to, a determination of the number of major industrial users and the quantity and quality of wastewater input from each to the sewerage system. (As a minimum, the industrial user information should include the information outlined in Appendix A).

e. The permittee shall submit to the permit issuing authority the required report of progress or, where a specific action is required in a., b., c., and d. above to be taken by a certain date, a written notice of compliance or noncompliance with each of the above schedule dates, postmarked no later than 14 days following each elapsed date.

- (1) A short description of the noncompliance;

^{1/} A major industrial user is one that: (a) has a flow of 50,000 gallons or more per average workday; (b) has a flow greater than five percent of the flow carried by the municipal system receiving the waste; (c) has in its waste a toxic pollutant in toxic amounts as defined in standards issued under Section 307(a) of the Act; or (d) has significant impact, either singly or in combination with other contributing industries, on the treatment works or the quality of its effluent.

(2) A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement without further delay;

(3) A description of any factors which tend to explain or mitigate the noncompliance; and

(4) An estimate of the date permittee will comply with the elapsed schedule requirement and an assessment of the probability that permittee will meet the next scheduled requirement on time.

S3. Compilation of Monitoring Data

a. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of the monitored discharge.

b. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, published pursuant to section 304(g) of the Federal Water Pollution Control Act, as amended, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines. If the section 304(g) guidelines do not specify test procedures for any pollutants required to be monitored by this permit and until such guidelines are promulgated, sampling and analytical methods used to meet the monitoring requirements specified in this permit shall, unless otherwise specified by the Regional Administrator, conform to the latest edition of the following references:

- (1) American Public Health Association, Standard Methods for the Examination of Water and Wastewaters.
- (2) American Society for Testing and Materials, A.S.T.M. Standards, Part 23, Water, Atmospheric Analysis.
- (3) Environmental Protection Agency, Water Quality Office, Analytical Control Laboratory, Methods for Chemical Analysis of Water and Wastes.

The permittee shall submit a description of the sampling and analyses methods it proposes to use to the Regional Administrator within 30 days of the effective date of this permit, specifying their location in a particular reference work. The permittee shall use only such methods in gathering the required data on the quantity and quality of its effluent.

c. Permittee shall take samples and measurements to meet the monitoring requirements specified above in the effluent stream before its discharge to the receiving water.

S4. Recording of Monitoring Activities and Results

a. The permittee shall make and maintain records of all information resulting from the monitoring activities required by this permit.

b. The permittee shall record for each measurement or sample taken pursuant to the requirements of this permit the following information: (1) The date, exact place, and time of sampling; (2) the dates analyses were performed; (3) who performed the analyses; (4) the analytical techniques or methods used; and, (5) the results of all required analyses.

c. If the permittee monitors any pollutant more frequently than is required by this permit, he shall include the results of such monitoring in the calculation and reporting of the values required in the Discharge Monitoring Report form (EPA Form 3320-1 (10-72)). Such increased frequency shall be indicated on the Discharge Monitoring Report form.

d. The permittee shall retain for a minimum of 3 years all records of monitoring activities and results including all records of calibration and maintenance of instrumentation and original recordings from continuous monitoring instrumentation. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the permittee or when requested by the Regional Administrator or the State water pollution control agency.

S5. Reporting of Monitoring Results

a. Monitoring information required by this permit shall be summarized and reported by submitting a Discharge Monitoring Report form (EPA Form 3320-1 (10-72)), properly filled in and signed, to the Regional Administrator and the State agency at the following addresses:

United States Environmental Protection Agency
Region X
1200 6th Avenue
Seattle, Washington 98101

Attn: Enforcement Branch M/S 513

State of Alaska
Department of Environmental Conservation
Pouch "O"
Juneau, Alaska 99801

b. Each submitted Discharge Monitoring Report shall be signed by a principal executive officer, ranking elected official, commanding officer, or other duly authorized employee.

c. All information submitted on the Discharge Monitoring Report form shall be based upon measurements and sampling carried out during the previous reporting period. The first Discharge Monitoring Report shall be submitted for the period ending March 31, 1975. Thereafter, reporting periods shall end on the last day of March, June, September and December. The permittee shall submit a Discharge Monitoring Report postmarked no later than the 28th day of the month following each quarterly reporting period.

S6. Limitation of Discharges of Oil and Hazardous Substances in Harmful Quantities

Nothing in this permit shall be deemed to preclude the institution of any legal action nor relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under section 311 of the Federal Water Pollution Control Act as amended, or under any other Federal or State law or regulation.

S7. Limitation of Visible Floating Solids and Foam

During the period beginning with the effective date of this permit and lasting until the date of expiration of this permit, the permittee shall not discharge floating solids or visible foam.

S8. Solids Disposal

Collected screenings, grit, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into navigable waters or their tributaries.

S9. Noncompliance with Effluent Limitations

a. If for any reason the permittee does not comply with or will be unable to comply with any effluent limitation specified in this permit, the permittee shall immediately notify the permit issuing authority or his designee by telephone at (206) 442-1200 and the State of Alaska, Department of Environmental Conservation, South-central Regional Office in Anchorage at (907) 274-5527 and provide the permit issuing authority and the state with the following information in writing within five days of such notification:

- (1) Cause of noncompliance;
- (2) A description of the noncomplying discharge including its impact upon the receiving waters;
- (3) Anticipated time the condition of noncompliance is expected to continue, or if such condition has been corrected, the duration of the period of noncompliance;

(4) Steps taken by the permittee to reduce and eliminate the noncomplying discharge; and

(5) Steps to be taken by the permittee to prevent recurrence of the condition of noncompliance.

b. Permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitation specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

S10. Provision for Electric Power Failure

The permittee shall either:

a. no later than February 28, 1975, certify in writing to the permit issuing authority that the permittee has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by permittee to maintain compliance with the terms and conditions of the permit;
or

b. no later than thirty days after the effective date of this permit, certify in writing to the permit issuing authority that upon the reduction, loss, or failure of one or more of the primary sources of electric power to any facilities utilized by the permittee to maintain compliance with the terms and conditions of this permit, the permittee shall halt, reduce, or otherwise control all discharges in order to maintain compliance with the terms and conditions of this permit.

S11. Prohibition of Bypass of Treatment Facilities

The diversion or bypass of any discharge from facilities utilized by the permittee to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the terms and conditions of this permit. The permittee shall immediately notify the permit issuing authority in writing of each such diversion or bypass in accordance with the procedure specified above for reporting noncompliance.

This permit and the authorization to discharge shall expire on midnight June 30, 1977. Permittee shall not discharge after the above date of expiration. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information, forms, and fees as are required by the agency authorized to issue NPDES permits no later than 180 days prior to the above date of expiration.